hEX S (2025)

hEX S (2025) (E60iUGS)

A compact, affordable wired router featuring a 2.5G SFP port, 5x Gigabit Ethernet, PoE out, USB, and a fast dual-core CPU - ideal for homes, offices, or underfunded labs that need reliable performance.

Safety Warnings

Before you work on any equipment, be aware of the hazards involved with electrical circuitry, and be familiar with standard practices for preventing accidents.
Ultimate disposal of this product should be handled according to all national laws and regulations.
The Installation of the equipment must comply with local and national electrical codes.
This unit is intended to be installed in the rackmount. Please read the mounting instructions carefully before beginning installation. Failure to use the correct hardware or to follow the correct procedures could result in a hazardous situation to people and damage to the system.
This product is intended to be installed indoors. Keep this product away from water, fire, humidity or hot environments.
Use only the power supply and accessories approved by the manufacturer, and which can be found in the original packaging of this product.
Read the installation instructions before connecting the system to the power source.
We cannot guarantee that no accidents or damage will occur due to the improper use of the device. Please use this product with care and operate at your own risk!
In the case of device failure, please disconnect it from power. The fastest way to do so is by unplugging the power plug from the power outlet.
It is the customer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, cabling requirements, and Dynamic Frequency Selection (DFS) requirements. All MikroTik devices must be professionally installed.

> ⚠ To avoid pollution of the environment, please separate the device from household waste and dispose of it in a safe manner, such as in designated waste disposal sites. Familiarize yourself with the procedures for the proper transportation of the equipment to the designated disposal sites in your area.

First use

1. Connect your Internet cable to one of the two ports labeled "Internet", depending on whether you will use an SFP module or Ethernet;
2. Choose your powering solution, please see the Powering section for possibilities;
3. Connect the device to a power source;
4. Configure your network card settings to obtain the IP address automatically using DHCP;
5. Connect the PC to any port except Ethernet1;
6. Configuration should be made using a web browser WebFig or the WinBox configuration tool https://mt.lv/WinBox; **multiple configuration methods are available to ensure accessibility;**
7. The IP address from the local network is 192.168.88.1, use it in your browser to access the device user admin and no password (or, for some models, check user and wireless passwords on the sticker).
8. We recommend clicking the "Check for updates" button and updating your RouterOS software to the latest version to ensure the best performance and stability.
9. Set up your password on the screen that loads.
10. Open http://192.168.88.1 in a web browser to start setup. If the IP address is unavailable, use WinBox and connect using the MAC address. The username is "admin", and there is no password (or, for some models, check user and wireless passwords on the sticker);
11. Click the "Check for updates" button and update RouterOS to the latest version;
12. For a manual update, visit the products page at https://mikrotik.com/products to find your product. The required packages are accessible under the "Support&Downloads" menu;
13. Upload downloaded packages to the WebFig or WinBox "Files" menu and reboot the device;
14. By upgrading your RouterOS software to the latest version, you can ensure optimal performance, stability, and security updates;

15. Set up your router password.

Mounting

This device is intended for indoor use and can be placed on a flat surface or mounted on a wall. Mounting points are located on the underside of the device. Screws are not included in the package. 4x25 mm screws are suitable. Depending on your wall type, you may also need 6x30 mm dowels and a 6 mm drill bit.
When mounting on a wall, make sure the ports are facing downward. For optimal performance, we recommend using a Cat6 shielded Ethernet cable. The device has an IP20 rating.

Configuration

RouterOS includes many configuration options in addition to what is described in this document. We suggest starting here to get yourself accustomed to the possibilities: https://mt.lv/help.
In case IP connection is not available, the WinBox tool https://mt.lv/winbox can be used to connect to the MAC address of the device from the LAN side (all access is blocked from the internet port by default). For recovery purposes, it is possible to boot the device from the network, see section Buttons.

Powering

The device accepts power from the power jack or from the first Ethernet port:

- Direct input power jack (5.5mm outside and 2mm inside, female, pin positive) accepts DC 12-57 V.
- The first Ethernet port accepts passive or 802.3af/at Power over Ethernet in the range of DC 18-57 V.

The power consumption of this device under maximum load without attachments is up to 5 W.
When using 802.3af/at to power this device, we recommend not using grounding for best compatibility.
Connecting to a POE Adapter:

1. Connect the device to the included PoE injector with an Ethernet cable to the data+power end;
2. Connect the data end of the PoE injector to the computer;
3. Connect the power adapter to the PoE injector.

Extension Slots and Ports

- Five individual 10/100/1000 Gigabit Ethernet ports, supporting automatic cross/straight cable correction (Auto MDI/X), so you can use either straight or cross-over cables for connecting to other network devices.
- One SFP module cage supports 2.5 G modules.
- One USB 3.0 type-A.

Buttons

Reset button

The reset button has three functions:

1. Reset RouterOS configuration - Hold the button during boot until the SFP LED light starts flashing, then release it to reset the configuration (about 5 seconds).
2. Enable CAP mode. Clears the configuration and bridges all interfaces. Keep holding for 5 more seconds (total 10 seconds) until the SFP LED turns solid, then release.
3. Reinstall RouterOS using Netinstall (BOOTP mode). Two types of booters are available:
    - Regular booter - Power on the device, wait 1-2 seconds, then press and hold the Reset button. Wait until the SFP LED is blinking and then turns solid ON. When the SFP LED turns OFF, release the Reset button - the device will enter BOOTP mode.
    - Backup booter - Power off the device, press and hold the Reset button, then power it on. Wait until the SFP LED is blinking and then turns solid ON. When the SFP LED turns OFF, release the Reset button - the device will enter BOOTP mode using the backup booter.

Regardless of the above option used, the system will load the backup RouterBOOT loader if the button is pressed before power is applied to the device. Useful for RouterBOOT debugging and recovery.

Mode button

The action of the mode buttons can be configured from RouterOS software to execute any user-supplied RouterOS script. You can also disable this button. The mode button can be configured in RouterOS menu /system routerboard mode-button.

Accessories

Package includes the following accessories that come with the device:

24V 1.2A power adapter

Please visit wiki pages for MikroTik SFP module compatibility table: https://help.mikrotik.com/docs/spaces/ROS/pages/220233794/MikroTik+wired+interface+compatibility

Specifications

For more information about this product, specification and pictures please visit our web page: https://mikrotik.com/product/hex_s_2025

Operating system support

The device supports RouterOS software with version 7 or above, which is indicated in the RouterOS menu /system resource. Other operating systems have not been tested.

> *Information contained here is subject to change. Please visit the product page on www.MikroTik.com for the most up to date version of this document.*